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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,919

DATE: 07/27/2001

TIME: 10:10:00

Input Set : A:\026350-048.ST25.txt

Output Set: N:\CRF3\07272001\I805919.raw

ENTERED

4 <110> APPLICANT: Sano, Hiroshi
 5 Kusano, Tomonobu
 7 <120> TITLE OF INVENTION: A Gene Which Exhibits Induced Expression By Stress
 9 <130> FILE REFERENCE: 026350-048
 11 <140> CURRENT APPLICATION NUMBER: US 09/805,919
 C--> 12 <141> CURRENT FILING DATE: 2000-03-15
 14 <150> PRIOR APPLICATION NUMBER: JP 2000-71,655
 15 <151> PRIOR FILING DATE: 2000-03-15
 17 <160> NUMBER OF SEQ ID NOS: 3
 19 <170> SOFTWARE: PatentIn version 3.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 308
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Nicotiana tabacum
 26 <220> FEATURE:
 27 <221> NAME/KEY: PEPTIDE
 28 <222> LOCATION: (277)
 29 <223> OTHER INFORMATION: Amino acid 277 is "Xaa" wherein "Xaa" = any amino acid.
 31 <400> SEQUENCE: 1
 33 Met Leu Thr Arg Gly Leu Leu Phe Ala Cys Val Leu Leu Leu Val Thr
 34 1 5 10 15
 36 Leu Ile Ser Ser Ser Lys Ala Gln Asp Ile Ser Gln Cys Val Pro Ser
 37 20 25 30
 39 Ser Cys Gly Asp Ile Gln Ile Lys Phe Pro Phe Arg Leu Arg Thr Asp
 40 35 40 45
 42 Pro Glu His Cys Gly Arg Arg Gly Tyr Glu Leu Asp Cys Gln Asn Asn
 43 50 55 60
 45 Gln Thr Val Phe Asn Tyr Lys Ser Arg Ile Phe Asp Val Gln Glu Ile
 46 65 70 75 80
 48 Asn Tyr Arg Ser Tyr Ser Ile Arg Leu Leu Asp Pro Gly Leu Asn Asp
 49 85 90 95
 51 Gln Arg Glu Asn Cys Thr Val Phe Pro Asn His Arg Ala Ser Tyr Asp
 52 100 105 110
 54 Ala Met Thr Ser Gln Ile Phe Glu Trp Val Arg Val Asn Asn Asp Ile
 55 115 120 125
 57 Asn Tyr Val Asn Cys Leu Ala Pro Ile Asn Ser Ser Gln Tyr Ile Pro
 58 130 135 140
 60 Thr Ser Phe Cys Ser Lys Asn Ser Thr Gly Phe Ser Tyr Leu Val Ile
 61 145 150 155 160
 63 Arg Glu Ile Leu Gln Ala Ser Asp Leu Ala Gly Gly Cys Arg Val Glu
 64 165 170 175
 66 Thr Val Ala Trp Ser Ser Ala Pro Gly Ile Ser Ser Asn Lys Ser Ser
 67 180 185 190
 69 Thr Leu Ser Ser Thr His Gln Gly Leu Ala Tyr Gly Phe Glu Leu Ser
 70 195 200 205
 72 Trp Lys Arg Asn Leu Leu Cys Arg Asn Cys Asp Arg Ser Arg Gly Gly
 73 210 215 220

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75 Glu Cys Thr Ile Glu Glu Asn Ser Asp Arg Ala Thr Cys Arg Tyr Trp
 76 225 230 235 240
 78 Cys Lys Glu Asp Ile His Val Ser Lys Leu Thr Phe Arg Cys Lys Val
 79 245 250 255
 81 Glu Tyr Tyr Ser Val Tyr Val Leu Phe Phe Gly Gly Ile Gly Ile Gly
 82 260 265 270
 84 Gly Val Leu Ala Xaa Arg Phe Leu Leu Gly Ile Pro Ile Leu Ile Ala
 85 275 280 285
 87 Ala Val Val Trp Gln Cys Lys Arg Arg Asn Leu His Thr Ser Ser Asp
 88 290 295 300

90 Glu Gln Asn Cys

91 305

93 <210> SEQ ID NO: 2

94 <211> LENGTH: 927

95 <212> TYPE: DNA

96 <213> ORGANISM: Nicotiana tabacum

98 <400> SEQUENCE: 2

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 101 tctaaagcgc aggatatttc tcaatgtgtc ccttcttctt gcggtgatat tcaaataaaa 120
 103 tttcccttcc gactgaggac tgatcccgag cattgtggta gacgcggata tgagctcgat 180
 105 tgccagaaca accaaaccgt gttcaattac aaatccagaa ttttcgacgt acaggaaatt 240
 107 aactacagaa gctactcaat aaggctactt gatcctggcc taaatgatca gagagaaaat 300
 109 tgcacagttt ttccaaatca cagggcaagt tatgatgcca tgactagcca aatctttgaa 360
 111 tgggttcgtg ttaacaatga tatcaactat gtcaactgtc tagctcctat caattcgtca 420
 113 cagtatatct ctacaagttt ttgtagcaaa aattcaacgg gttttagcta ccttgtcata 480
 115 agagaaatat tgcaagcttc ggatttggtt ggcggctgta gggttgaaac tgttgcatgg 540
 117 tcctctgctc caggcatttc atcaaacaag tcgtctacgt tatcaagcac acatcaaggc 600
 119 ctggcttatg ggtttgagct ttcttggaag cgtaatctgt tatgtagaaa ttgcgaccgg 660
 121 agtcgtgggg gtgagtgacac tattgaagaa aacagcgaca gagctacttg tcgttattgg 720
 123 tgcaagagg acattcacgt ttcgagctt acgttccgat gcaaagtcga gtactattct 780
 125 gtttatgtat tgttcttttg cggtatagga ataggtggag ttttggcgt aagatttcta 840
 127 ctaggaattc caatcttgat cgcagcagtg gtgtggcagt gcaaaagacg gaatttgcat 900
 129 acatcctccg atgaacagaa ctgttaa 927

132 <210> SEQ ID NO: 3

133 <211> LENGTH: 1210

134 <212> TYPE: DNA

135 <213> ORGANISM: Nicotiana tabacum

137 <400> SEQUENCE: 3

138 tatattcaat tgaaaacatg ttgacaagag ggctgctttt cgcttgtggt ttgttacttg 60
 140 tgacactcat aagcagttct aaagcgcagg atattttctca atgtgtccct tcttctgctg 120
 142 gtgatattca aataaaattt cccttccgac tgaggactga tcccagacat tgtggttagac 180
 144 gcggatatga gctcgattgc cagaacaacc aaaccgtgtt caattacaaa tccagaattt 240
 146 tcgacgtaca ggaaattaac tacagaagct actcaataag gctacttgat cctggcctaa 300
 148 atgatcagag agaaaattgc acagtttttc caaatcacag ggcaagttat gatgccatga 360
 150 ctagccaaat ctttgaatgg gttcgtgtta acaatgatat caactatgtc aactgtctag 420
 152 ctcttatcaa ttctgtcacag tatattccta caagtttttg tagcaaaaat tcaacgggtt 480
 154 ttagctacct tgtcataaga gaaatattgc aagcttcgga tttggctggc ggctgtaggg 540
 156 ttgaaactgt tgcattgtcc tctgtctccag gcatttcac aaacaagtcg tctacgttat 600
 158 caagcacaca tcaaggcctg gcttatgggt ttgagcttct ttggaagcgt aatctgttat 660

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160	gtagaaattg	cgaccggagt	cgtggggggtg	agtgcactat	tgaagaaaac	agcgacagag	720
162	ctacttgtcg	ttattggtgc	aaagaggaca	ttcacgtttc	gaagcttacg	ttccgatgca	780
164	aagtcgagta	ctattctgtt	tatgtattgt	tctttggcgg	tataggaata	ggtggagttt	840
166	tggcgctaag	atttctacta	ggaattccaa	tcttgatcgc	agcagtgggtg	tggcagtgca	900
168	aaagacggaa	tttgcataca	tcctccgatg	aacagaactg	ttaagatttt	tgctagtcaa	960
170	gctattttta	cagaagtttg	tgtatttttt	tcagaaaatc	taggacaagg	tcaacctgtg	1020
172	ctggcgatta	attactagga	tttttctttc	cagtttagtc	ctgtatttta	tttgatattc	1080
174	ttacctat	gattgtgtat	gatttttttc	cttaaaat	tataattttc	ctaattcttg	1140
176	taagtaattg	aatggatatt	tgtactttct	gtcaataata	gaacaagaca	ttcgcaaaaa	1200
178	aaaaaaaaa						1210

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1